

A FURTHER NOTE ON THE ANATOMICAL DIFFERENCES  
BETWEEN THE GENERA *CYPRÆA* AND *TRIVIA*.

By H. O. N. SHAW, F.Z.S.

*Read 10th December, 1909.*

SINCE writing my last paper on *Cypræa* and *Trivia*,<sup>1</sup> in which I endeavoured to show the anatomical differences which I considered sufficient to establish *Trivia* as a genus, Professor W. H. Dall, to whom I am much obliged for his information, has kindly drawn my attention to a further distinction, which I have not noticed in the previous paper. I may mention that the following observations are taken from literature only, as I have not had the opportunity of examining any live specimens. My thanks are due to Mr. E. A. Smith, who, with his usual kindness, has enabled me to verify certain references.

In *Trivia Europæa (arctica)*, as described by Clark :<sup>2</sup> "The head is scarcely a projection, concave laterally, flat above, and from its central basal vertical fissure a long proboscis can be exerted, though it is rarely seen." The animal of *Trivia Europæa (arctica)* is figured by Forbes & Hanley in their *History of British Mollusca*, 1853, vol. i, pl. NN, figs. 5-7, fig. 7 showing the under surface of head; and the description runs, op. cit., vol. iii, p. 494, "head broad, sublunate; proboscis retractile." H. & A. Adams, in *The Genera of Recent Mollusca*, vol. iii, pl. xxviii, fig. 5, have copied Forbes & Hanley's fig. 5.

*Cypræa* has, according to Messrs. Adams, op. cit., vol. i, p. 264, "head broad, rostrum short." Troschel, in his *Das Gebiss der Schnecken*, vol. i, pl. xvii, fig. 4, gives a figure of the head of *Cypræa carneola*, and on pp. 202 and 203 op. cit. he differentiates at length between *Cypræa* and *Trivia*. From his remarks and the other works consulted, as Professor Dall observes in his communication to me, it appears that *Cypræa* has a short, stout, subtruncate muzzle, from which a short evertible proboscis may be exerted, whereas *Trivia* has no muzzle, but a long slender proboscis, which, when withdrawn, leaves only a vertical slit between the tentacles on the lower side of the head (see Forbes & Hanley, op. cit., fig. 7). I am informed by Professor Dall that *Trivia Californiana* is very similar to *T. arctica*. The above differences are further proof of the advisability of considering *Trivia* as a genus; in fact, Troschel went so far as to establish a family Triviacea.

<sup>1</sup> Proc. Malac. Soc., vol. viii, pp. 288-313.

<sup>2</sup> *A History of the British Marine Testaceous Mollusca*, 1855, p. 505.